

## Specifications

Unit	Item		Model / J280EL III							
			460H			890H				
Injection Unit	Screw cylinder type		K (0P)	A	B	K (0P)	A	B		
	Screw diameter		mm	46	53	58	58	66	72	
	Screw stroke		mm	210			260			
	Theoretical injection capacity		cm <sup>3</sup>	349	463	555	687	890	1059	
	Injection capacity(PS)		g	318	421	505	625	810	965	
	Standard	Injection pressure (Max.)		MPa {kgf/cm <sup>2</sup> }	216 {2200}	177 {1800}	138 {1400}	216 {2200}	167 {1700}	138 {1400}
		Holding pressure (Max.)		MPa {kgf/cm <sup>2</sup> }	187 {1900}	157 {1600}	123 {1250}	187 {1900}	148 {1500}	118 {1200}
		Injection speed		mm/s	160			160		
		Injection rate		cm <sup>3</sup> /s	266	353	423	423	547	651
		Plasticizing rate		kg/h	115	163	197	197	282	336
		Screw Speed		min <sup>-1</sup>	250			250		
	High speed (OP)	Injection pressure (Max.)		MPa {kgf/cm <sup>2</sup> }	216 {2200}	177 {1800}	138 {1400}	216 {2200}	167 {1700}	138 {1400}
		Holding pressure (Max.)		MPa {kgf/cm <sup>2</sup> }	187 {1900}	157 {1600}	123 {1250}	177 {1800}	138 {1400}	113 {1150}
		Injection speed		mm/s	240			200		
		Injection rate		cm <sup>3</sup> /s	400	530	633	528	684	814
		Plasticizing rate		kg/h	161	228	275	197	282	336
		Screw Speed		min <sup>-1</sup>	350			250		
	Nozzle touch force		kN{tf}	24.6{2.5}			29.5{3.0}			
	Nozzle stroke from platen		mm	50						
	Type of nozzle			Open nozzle (tip type)						
Cylinder temperature control			Cylinder 4 / Nozzle 1							
Heater wattage		kW	18.2			24.6				
Clamping Unit	Mechanism		Double toggle							
	Clamping force		kN{tf}	2750{280}						
	Day light opening (Max.)		mm	1100						
	Opening stroke (Max.)		mm	570						
	Mold height		mm	250~530						
	Distance between tie-bars (HxV)		mm	630x630						
	Platen size (HxV)		mm	950x950						
	Ejector type			13 points						
	Ejector force		kN{tf}	59.0{6.0}						
	Ejector stroke		mm	150						
General	Machine weight		t	13.6			14.3			
	Machine dimensions (LxWxH)		m	6.56x1.73x2.16			7.34x1.73x2.16			

### Remarks:

1. Injection pressure of J-EL III series is different from that of JSW's hydraulic machines.
2. "KK" size screw J180ELIII and smaller is same as "K" size of one smaller model.
3. Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
4. The theoretical injection capacity is (cross sectional area of cylinder) x (stroke of screw).
5. The injection capacity is applicable for GP-PS and variable according to the grade of resin, molding conditions and mold.
6. The plasticizing rate is applicable for GP-PS.
7. PC (polycarbonate), HPVC, other engineering plastic, etc., low temperature setting, and high speed molding may require a high torque depending on the grade or molding conditions. Please contact us if you plan.

### Note:

1. Due to continual improvements, specifications are subject to change without notice.

2. Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
3. Performance specifications are based on theoretical data.
4. High speed injection is optional(except J35ELIII,and J450ELIII-1400H).
5.  $1\text{MPa}=10.2\text{kgf/cm}^2$ ,  $1\text{kN}=0.102\text{tf}$